

## OWNER'S MANUAL MODEL NO. SGT18H46C 18.0 HP 46 Inch Lawn Tractor

Assembly

- Operation
  - Customer Responsibilities
    - Service and Adjustments
      - Storage
        - Troubleshooting
          - Repair Parts

For Parts and Service, contact our authorized distributor: call 1-800-849-1297 For Technical Assistance: call 1-800-829-5886



### **SAFETY RULES**

#### SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS

**IMPORTANT:** THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

#### **I. GENERAL OPERATION**

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

#### **II. SLOPE OPERATION**

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

#### DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes *slow* and *gradual*. Do not make sudden changes in speed or direction.

• Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

#### DO NOT:

- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- *Do not* mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- *Do not* mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

#### **III. CHILDREN**

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### **IV. SERVICE**

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

### SAFETY RULES Safe Operation Practices for Ride-On Mowers



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

CAUTION: Do not coast down a hill in neutral, you may lose control of the tractor.



CAUTION: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

### WARNING

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

### PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF-SJ):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/FILTER: 5 PINTS W/O FILTER: 4.5 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RN4C
GROUND SPEED (MPH):	FORWARD: 5.5 REVERSE: 2.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	27-35 FT. LBS.

**CONGRATULATIONS** on your purchase of a new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service centre/department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

#### **CUSTOMER RESPONSIBILITIES**

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

**WARNING:** This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

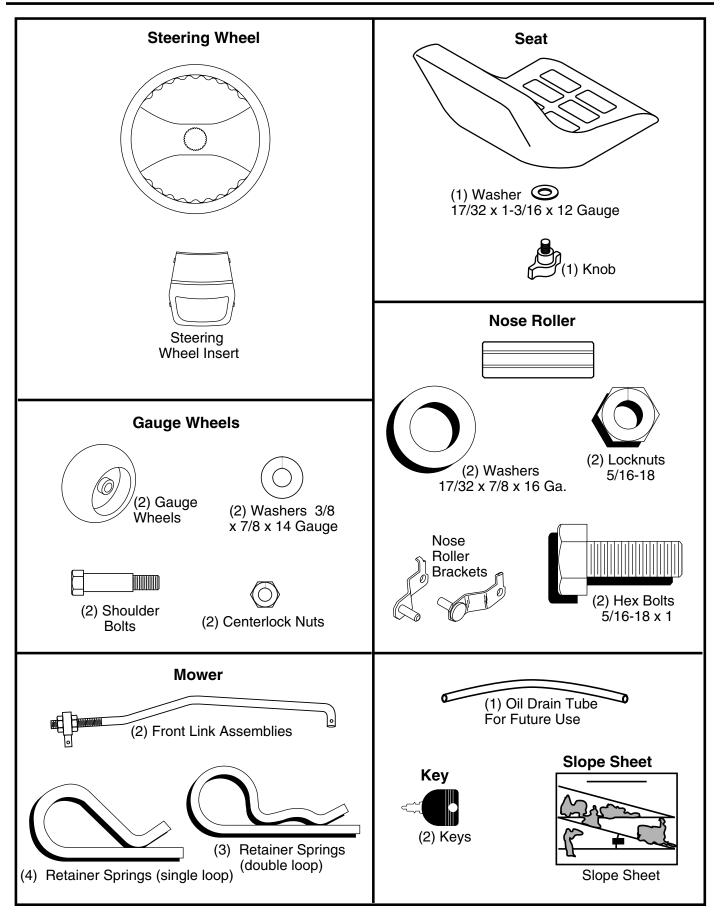
A spark arrester for the muffler is available through your nearest authorized service centre/department (See RE-PAIR PARTS section of this manual).

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### **UNASSEMBLED PARTS**



Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

### TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- (2) 9/16" wrench(2) 1/2" wrenches
- Pliers Tire pressure gauge
- (1) 3/4" Socket w/drive ratchet Utility knife

When right or left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

### TO REMOVE TRACTOR FROM CARTON

#### UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton.
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Remove mower and packing materials.
- Check for any additional loose parts or cartons and remove.

## BEFORE REMOVING TRACTOR FROM SKID

#### ATTACH STEERING WHEEL (See Fig. 1)

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

**IMPORTANT:** CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

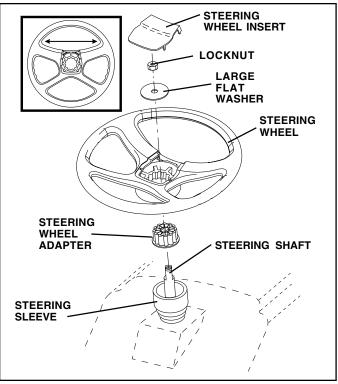


FIG. 1

### HOW TO SET UP YOUR TRACTOR

#### CHECK BATTERY (See Fig. 2)

- Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in CUSTOMER RESPONSIBILITIES section of this manual for charging instructions).

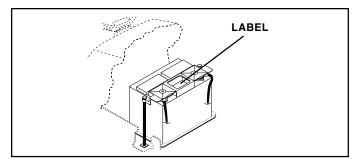


FIG. 2

#### INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
- Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

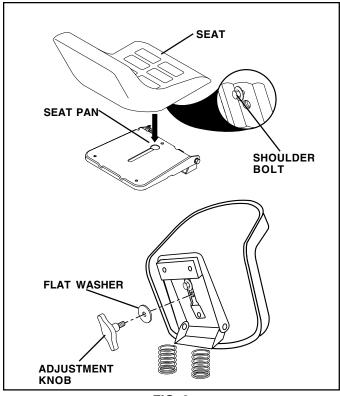


FIG. 3

**NOTE:** You may now roll or drive your tractor off the skid. Follow the appropriate instruction below to remove the tractor from the skid.

# TO ROLL TRACTOR OFF SKID (See Operation section page 11 for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TOTRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.

#### TO DRIVE TRACTOR OFF SKID (See Operation section page 11 for location and function of controls)

**AWARNING:** Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

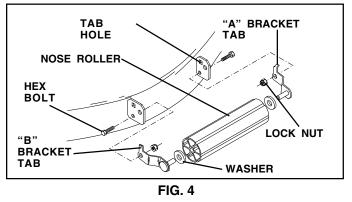
- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place motion control lever in neutral position.
- Turn ignition key to "OFF" position.

Continue with the instructions that follow.

#### TO ATTACH NOSE ROLLER (See Fig. 4)

- Position brackets, 17/32 x 7/8 x 16 gauge washers, and nose roller between deck mounting brackets as shown.
   Be sure to position brackets on correct side, as shown.
- Install hex bolts and lock nuts as shown. Tighten hardware securely.

**NOTE:** Be sure bracket tabs are positioned in tab holes in deck brackets.



## INSTALL MOWER AND DRIVE BELT (See Figs. 5 and 6)

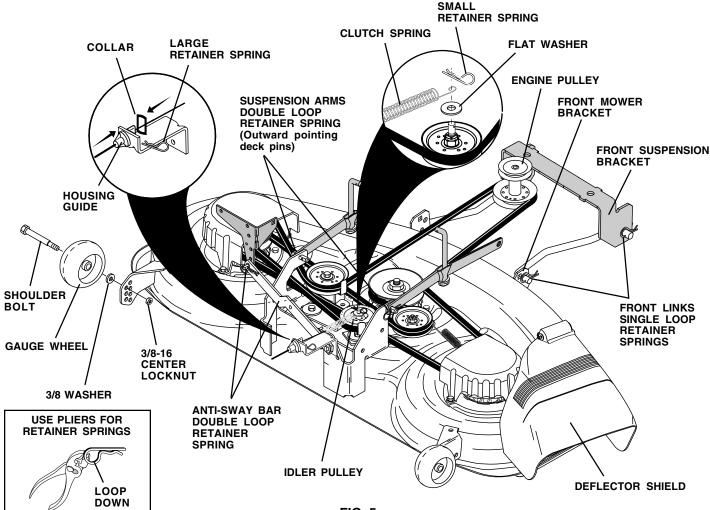
Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- Cut and remove ties securing anti-sway bar and belts. Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with deflector shield to right side of tractor.

**IMPORTANT:** CHECK BELT FOR PROPER ROUTING IN ALL MOWER PULLEY GROOVES. INSTALL BELT INTO ENGINE PULLEY GROOVE.

- Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in R.H. front suspension bracket only and retain with single loop retainer spring as shown.
- Slide right side of mower back and install the unattached front link in top hole of the R.H. front mower bracket. Retain with single loop retainer spring as shown.
- Lower mower linkage with attachment lift control.

- Place the suspension arms on outward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs with loops down as shown.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Install clutch cable:
  - Slide collar away from cable housing guide.
  - Push housing guide into hole in mounting bracket.
  - Slide collar onto housing guide and secure with large retainer spring.
  - Place flat washer and clutch spring on idler pulley bolt and secure with small retainer spring.
- Raise mower to highest position.
- Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers and 3/8-16 center locknuts. Tighten securely.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.



#### CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

• Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual.

#### CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TOLEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

### CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

#### CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

### ✓ CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRAC-TOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

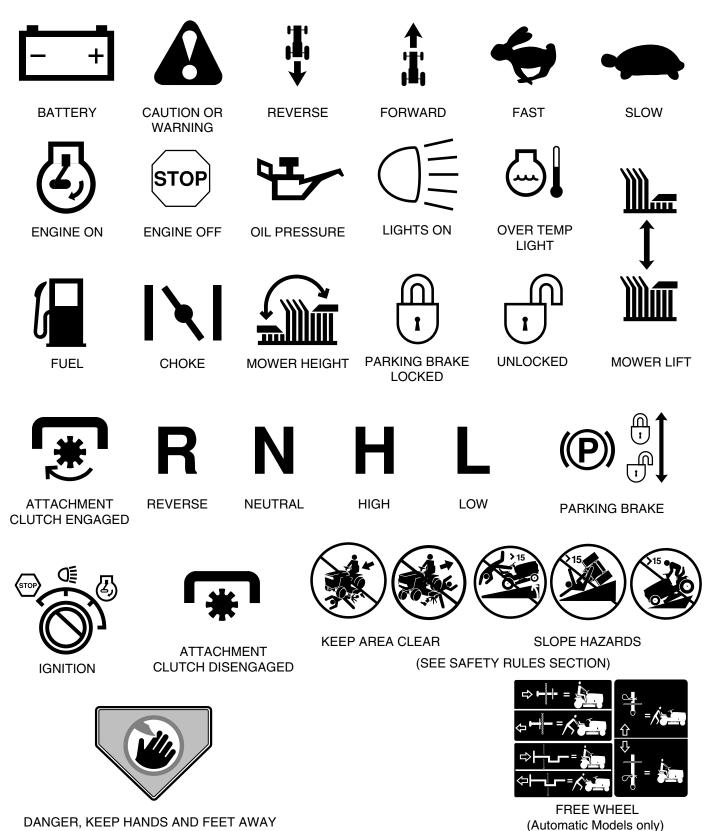
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- / Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in drive position.

#### WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



### KNOW YOUR TRACTOR

#### READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

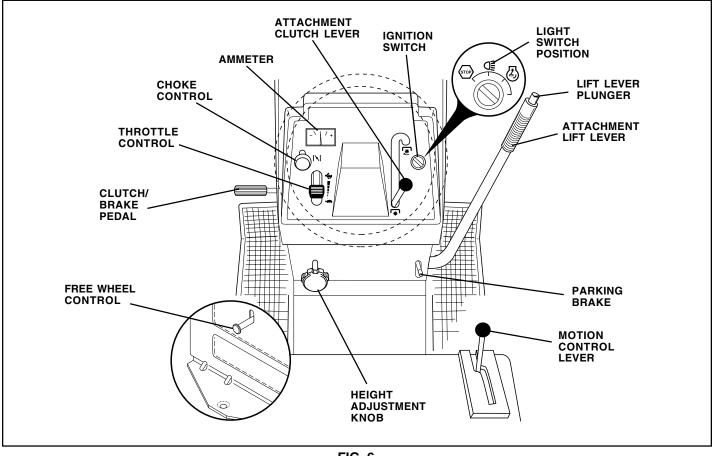


FIG. 6

Our tractors conform to the safety standards of the American National Standards Institute.

**ATTACHMENT CLUTCH LEVER**: Used to engage the mower blades, or other attachments mounted to your tractor. **LIGHT SWITCH**: Turns the headlights on and off.

**THROTTLE CONTROL**: Used to control engine speed. **CHOKE CONTROL**: Used when starting a cold engine.

**CLUTCH/BRAKE PEDAL**: Used for declutching and braking the tractor and starting the engine.

**PARKING BRAKE**: Locks clutch/brake pedal into the brake position.

**FREEWHEEL CONTROL**: Disengages transmission for pushing or slowly towing the tractor with the engine off.

**AMMETER:** Indicates charging (+) or discharging (-) of battery.

**MOTION CONTROL LEVER:** Selects the speed and direction of tractor.

**ATTACHMENT LIFT LEVER** - Used to raise and lower the mower deck or other attachments mounted to your tractor.

**LIFT LEVER PLUNGER**: Used to release attachment lift lever when changing its position.

**IGNITION SWITCH**: Used for starting and stopping the engine.

**HEIGHT ADJUSTMENT KNOB:** Used to adjust the mower cutting height.



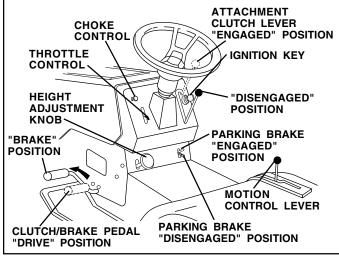
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.

### HOW TO USE YOUR TRACTOR

#### TO SET PARKING BRAKE (See Fig. 7)

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.





#### STOPPING (See Fig. 7)

MOWER BLADES -

• To stop mower blades, move attachment clutch lever to "DISENGAGED" position.

#### GROUND DRIVE -

- To stop ground drive, depress clutch/brake pedal into full "BRAKE" position.
- Move motion control lever to neutral (N) position.

**IMPORTANT:** THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

#### ENGINE -

Move throttle control to slow position.

**NOTE:** Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

**IMPORTANT:** LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).

**NOTE:** Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.



CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

#### TO USE CHOKE CONTROL (See Fig. 7)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

• To engage choke control, pull knob out. Slowly push knob in to disengage.

### TO MOVE FORWARD AND BACKWARD (See Fig. 7)

The direction and speed of movement is controlled by the motion control lever.

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake and clutch/brake pedal.
- Slowly move motion control lever to desired position.

## TO ADJUST MOWER CUTTING HEIGHT (See Fig. 7)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise ( $\frown$ ) to raise cutting height.
- Turn knob counterclockwise () to lower cutting height.

The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

#### TO ADJUST GAUGE WHEELS (See Fig. 8)

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

**NOTE:**Adjust gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

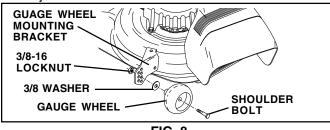


FIG. 8

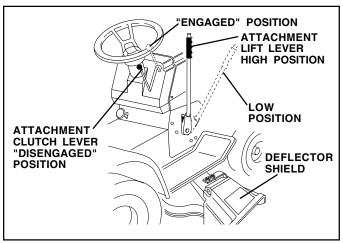
#### TO OPERATE MOWER (See Fig. 9)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

- Select desired height of cut.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.



#### TO OPERATE ON HILLS



CAUTION: Do not drive up or down hills with slopes greater than  $15^{\circ}$  and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

**IMPORTANT:** THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

#### TO TRANSPORT (See Figs. 6 and 10)

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located at the rear drawbar of tractor.

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and down into the slot and release so it is held in the disengaged position.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

**NOTE**: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

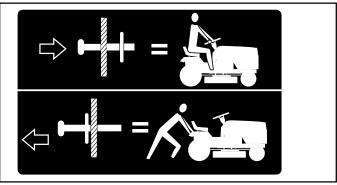


FIG. 10

#### TOWING CARTS AND OTHER ATTACHMENTS

Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

### **BEFORE STARTING THE ENGINE**

#### CHECK ENGINE OIL LEVEL (See Fig. 15)

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- · Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

#### ADD GASOLINE

• Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

**IMPORTANT:** WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

**WARNING**: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

#### TO START ENGINE (See Fig. 6)

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

**NOTE:** Before starting, read the warm and cold starting procedures below.

 Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

WARM WEATHER STARTING (50° F and above)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

• When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

#### AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
  - Be sure the tractor is on level ground.
  - Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
  - Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warmup period after the transmission has been warmed up and may require the choke control be pulled out slightly.

**NOTE:** If at a high altitude (above 3000 feet) or in cold temperatures (below 32 F) the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

#### PURGE TRANSMISSION



CAUTION: Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

**IMPORTANT:** SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

**NOTE:** During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and now ready for normal operation.

#### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 11).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

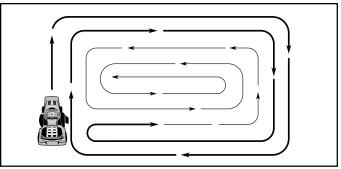


FIG. 11

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	.E	SEFORE	EACHUS VERV 8	HOURS	SHOUR SHOUR	SHOUP VERY 1	NERY B	45 EASON EFORE	SER	GE	E DA	TES
	Check Brake Operation	~	<b>/</b>										
	Check Tire Pressure	~	<b>/</b>										
Т	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	~				<b>V</b> 7		~					
A C	Sharpen/Replace Mower Blades			<b>V</b> <sub>4</sub>									
ĬŤ	Lubrication Chart			<b>/</b>				~					
l o	Check Battery Level			6									
Ř	Clean Battery and Terminals			<b>/</b>				~					
	Check Transaxle Cooling			~									
	Adjust Blade Belt(s) Tension					<b>V</b> <sub>5</sub>							
	Adjust Motion Drive Belt(s) Tension					<b>V</b> 5							
	Check Engine Oil Level	~	<b>/</b>										
	Change Engine Oil			1,2,3				~					
ΙE	Clean Air Filter			<b>V</b> 2									
Ň	Clean Air Screen			<b>V</b> 2									
Ģ	Inspect Muffler/Spark Arrester				<b>/</b>								
	Replace Oil Filter (If equipped)					1,2							
E	Clean Engine Cooling Fins					<b>V</b> <sub>2</sub>							
<u>-</u> ۱	Replace Spark Plug					V	<b>/</b>						
	Replace Air Filter Paper Cartridge					<b>V</b> 2							
	Replace Fuel Filter						~		1				

1 - Change more often when operating under a heavy load or in high ambient temperatures. 5 - If equipped with adjustable system.

6 - Not required if equipped with maintenance-free battery.

7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum.

Do not overtighten.

### GENERAL RECOMMENDATIONS

3 - If equipped with oil filter, change oil every 50 hours.

4 - Replace blades more often when mowing in sandy soil.

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

2 - Service more often when operating in dirty or dusty conditions.

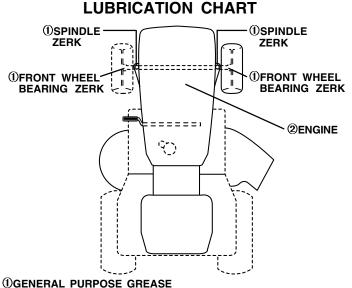
Some adjustments will need to be made periodically to properly maintain your tractor.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

#### **BEFORE EACH USE**

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.



©REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

**IMPORTANT:** DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRI-CANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POW-DERED GRAPHITE TYPE LUBRICANT SPARINGLY.

16

### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

#### TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" section of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

#### **OPERATOR PRESENCE SYSTEM**

Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

- The engine should not start unless the brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

#### **BLADE CARE**

For best results mower blades must be kept sharp. Replace bent or damaged blades.

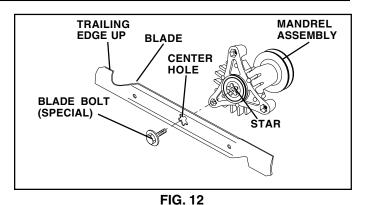
#### BLADE REMOVAL (See Fig. 12)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

**IMPORTANT:** TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON MANDREL ASSEMBLY.

- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (27-35 Ft. Lbs. torque).

**IMPORTANT**: BLADE BOLT IS GRADE 8 HEAT TREATED.



#### TO SHARPEN BLADE (See Fig. 13)

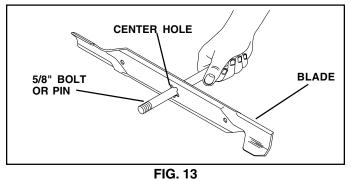
**NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).

**NOTE:** Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

• Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.



#### -

#### BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

**NOTE:** The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

#### TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual).

#### **V-BELTS**

Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

#### TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

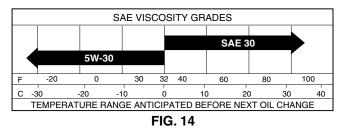
#### TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

### ENGINE

#### LUBRICATION

Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature.



**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

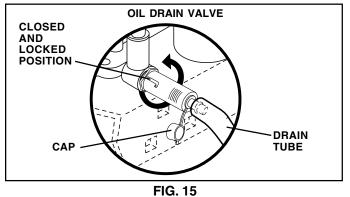
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level.

#### TO CHANGE ENGINE OIL (See Figs. 14 and 15)

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove cap from bottom fitting of drain valve and install the drain tube onto the fitting.
- Unlock drain valve by pushing inward and turning counterclockwise.
- To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto to the bottom fitting of the drain valve.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



#### CLEAN AIR SCREEN

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

#### **ENGINE COOLING FINS**

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Air guide covers must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).

#### AIR FILTER

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions. (See engine manual for instructions).

#### MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

#### SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" section of this manual.

#### IN-LINE FUEL FILTER (See Fig. 16)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

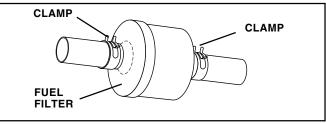


FIG. 16

## CLEANING Clean engine, battery, seat, finish, etc. of all foreign matter.

- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.



- **CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:**
- Depress clutch/brake pedal fully and set parking brake.
- Place motion control lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

### TRACTOR

### TO REMOVE MOWER (See Fig. 17)

Mower will be easier to remove from the right side of tractor.

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and lift clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

**IMPORTANT: IF AN ATTACHMENT OTHER THAN THE** MOWER DECK IS TO BE MOUNTED ON THE TRAC-TOR, REMOVE THE FRONT LINKS AND HOOK THE CLUTCH SPRING INTO SQUARE HOLE IN FRAME.

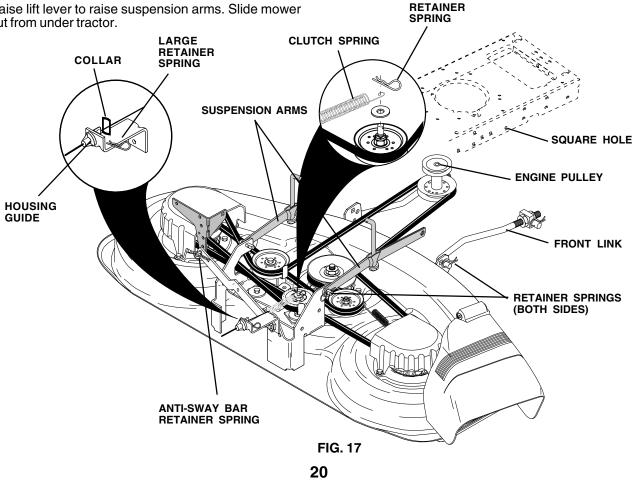
#### TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

#### TO LEVEL MOWER HOUSING

SMALL

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

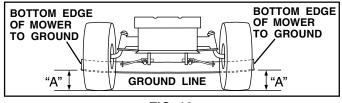


#### SIDE-TO-SIDE ADJUSTMENT (See Figs. 18 and 19)

- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height • from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one • side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE:** Three full turns of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.





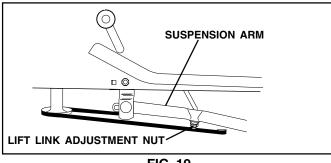


FIG. 19

FRONT-TO-BACK ADJUSTMENT (See Figs. 20 and 21)

IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that • both front links are equal in length.
- If links are not equal in length, adjust one link to same • length as other link.
- To lower front of mower loosen nut "E" on both front links • an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, • tighten nut "F" against trunnion on both front links.

A LANDON CONTRACTOR MANDREL "D" "D' Anonoman and

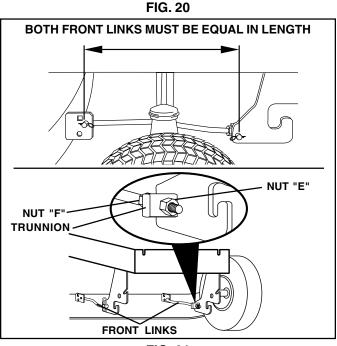


FIG. 21

### TO REPLACE MOWER DRIVE BELT

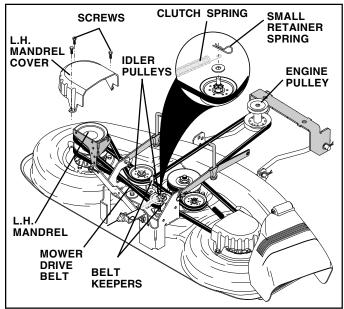
MOWER DRIVE BELT REMOVAL (See Fig. 22) -

- Park tractor on a level surface. Engage parking brake. • Disengage attachment clutch control.
- Remove screws from L.H. mandrel cover and remove cover.
- Remove small retainer spring and lift clutch spring off • pulley bolt.
- Roll belt over the top of L.H. mandrel pulley.
- Remove belt from engine pulley. •
- Remove belt from idler pulleys.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Check primary idler arm and two idlers to see that they rotate freely.

MOWER DRIVE BELT INSTALLATION (See Fig. 22) -

- Install belt in both idlers. Make sure belt is in both belt • keepers at the idlers as shown.
- Install new belt onto engine pulley.
- Roll belt into upper groove of L.H. mandrel pulley.
- Carefully check belt routing making sure belt is in the • grooves correctly and inside belt keepers.
- Reassemble clutch spring to pulley bolt.
- Reassemble L.H. mandrel cover.

Recheck side-to-side adjustment.

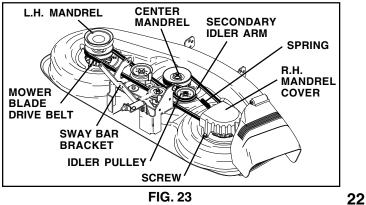


**FIG. 22** 

#### TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER" DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove screws from R.H. mandrel cover and remove cover.
- Carefully roll belt off R.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and L.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- Check secondary idler arm and idler to see that they rotate freely.
- Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.
- Reinstall R.H. mandrel cover.
- Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).



### TO ADJUST BRAKE (See Fig. 24)

Your tractor is equipped with an adjustable brake system which is mounted on the side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear on a level dry concrete or paved surface, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut • "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

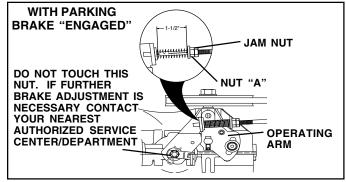
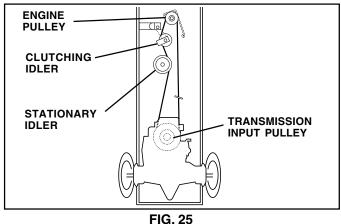


FIG. 24

#### TO REPLACE MOTION DRIVE BELT (See Fig. 25)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Pull belt toward front of tractor and remove downward from around engine pulley.
- Install new belt by reversing above procedure.



#### TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 26)

The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

**NOTE:** If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.

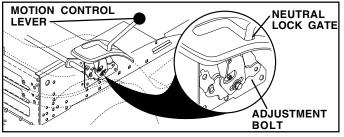


FIG. 26

#### TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMIS-SION" in the Operation section of this manual.

#### TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

#### FRONT WHEEL TOE-IN/CAMBER

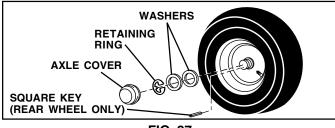
The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

## TO REMOVE WHEEL FOR REPAIRS (See Fig. 27)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key Do not lose).
- Repair tire and reassemble.

- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.



#### FIG. 27

### TO START ENGINE WITH A WEAK BATTERY (See Fig. 28)



CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. (See "BATTERY" in the Customer Responsibilities section of this manual).

If "jumper cables" are used for emergency starting, follow this procedure:

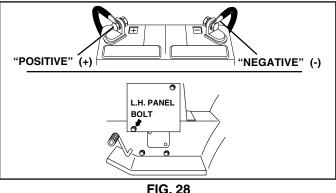
**IMPORTANT**: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and then from the fully charged battery.
- RED cable last from both batteries.



#### **REPLACING BATTERY (See Fig. 29)**



CAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift hood to raised position.
- Remove terminal guard.
- Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- Install new battery with terminals in same position as old battery.
- Reinstall terminal guard.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely
- Close terminal access doors.
- Close hood.

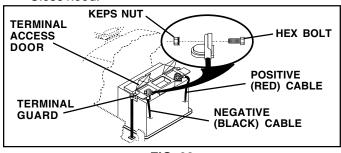


FIG. 29

#### TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

#### INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

• Check wiring. See electrical wiring diagram in the Repair Parts section.

#### TO REPLACE FUSE

Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

### TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 30)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.

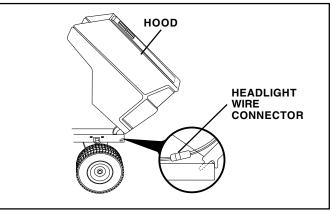


FIG. 30

### ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

#### TO ADJUST THROTTLE CONTROL CABLE

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, see engine manual.

#### TO ADJUST CHOKE CONTROL

The choke control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, see engine manual.

#### TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, see engine manual.

**IMPORTANT:** NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/ DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

## STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.



CAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

### TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

#### BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

#### ENGINE

#### FUEL SYSTEM

**IMPORTANT**: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

#### **ENGINE OIL**

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

#### CYLINDER(S)

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

#### OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

**IMPORTANT**: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

## **TROUBLESHOOTING POINTS**

PROBLEM	CAUSE	CORRECTION
Will not start	<ol> <li>Out of fuel.</li> <li>Engine not "CHOKED" properly.</li> <li>Engine flooded.</li> <li>Bad spark plug.</li> <li>Dirty air filter.</li> <li>Dirty fuel filter.</li> <li>Water in fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Wait several minutes before attempting to start.</li> <li>Replace spark plug.</li> <li>Clean/replace air filter.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service Adjustments section.</li> <li>Contact an authorized service center/department.</li> </ol>
Hard to start	<ol> <li>Dirty air filter.</li> <li>Bad spark plug.</li> <li>Weak or dead battery.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Clean/replace air filter.</li> <li>Replace spark plug.</li> <li>Recharge or replace battery.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service Adjustments section.</li> <li>Contact an authorized service center/department.</li> </ol>
Engine will not turn over	<ol> <li>Brake pedal not depressed.</li> <li>Attachment clutch is engaged.</li> <li>Weak or dead battery.</li> <li>Blown fuse.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty ignition switch.</li> <li>Faulty solenoid or starter.</li> <li>Faulty operator presence switch(es).</li> </ol>	<ol> <li>Depress brake pedal.</li> <li>Disengage attachment clutch.</li> <li>Recharge or replace battery.</li> <li>Replace fuse.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace ignition switch.</li> <li>Check/replace solenoid or starter.</li> <li>Contact an authorized service center/department.</li> </ol>
Engine clicks but will not start	<ol> <li>Weak or dead battery.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty solenoid or starter.</li> </ol>	<ol> <li>Recharge or replace battery.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace solenoid or starter.</li> </ol>
Loss of power	<ol> <li>Cutting too much grass/too fast.</li> <li>Throttle in "CHOKE" position.</li> <li>Build-up of grass, leaves and trash under mower.</li> <li>Dirty air filter.</li> <li>Low oil level/dirty oil.</li> <li>Faulty spark plug.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Water in fuel.</li> <li>Spark plug wire loose.</li> <li>Dirty engine air screen/fins.</li> <li>Dirty/clogged muffler.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> </ol>	<ol> <li>Set in "Higher Cut" position/reduce speed.</li> <li>Adjust throttle control.</li> <li>Clean underside of mower housing.</li> <li>Clean/replace air filter.</li> <li>Check oil level/change oil.</li> <li>Clean and regap or change spark plug.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean engine air screen/fins.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service Adjustments section.</li> <li>Contact an authorized service center/department.</li> </ol>
Excessive vibration	<ol> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Replace blade mandrel.</li> <li>Tighten loose part(s). Replace damaged parts.</li> </ol>

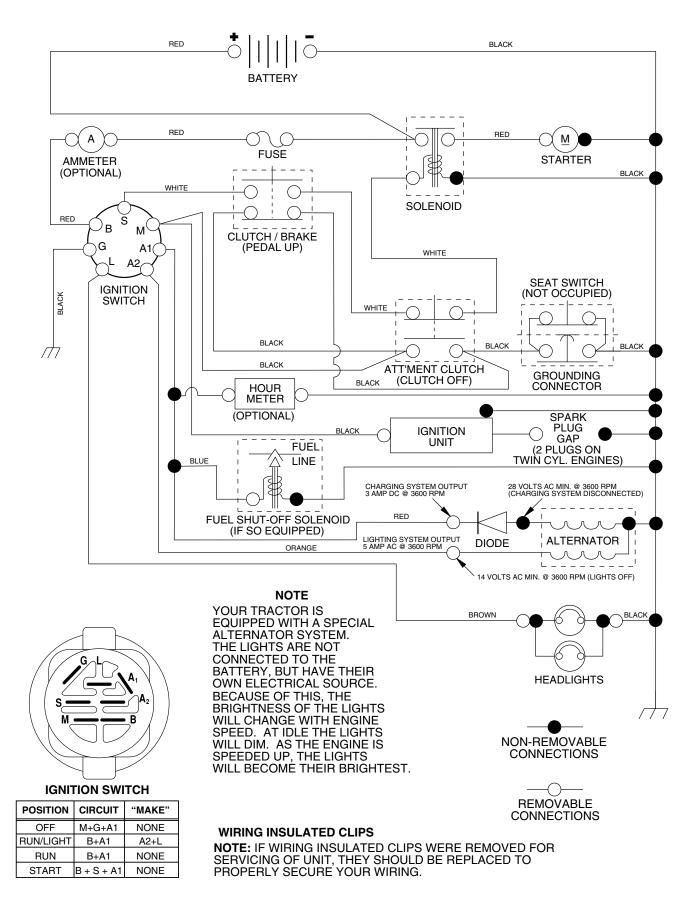
## **TROUBLESHOOTING POINTS**

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	<ol> <li>Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.</li> </ol>
Poor cut - uneven	<ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>
Mower blades will not rotate	<ol> <li>Obstruction in clutch mechanism.</li> <li>Worn/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ol>	<ol> <li>Remove obstruction.</li> <li>Replace mower drive belt.</li> <li>Replace idler pulley.</li> <li>Replace blade mandrel.</li> </ol>
Poor grass discharge	<ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ol>
Headlight(s) not working (if so equipped)	<ol> <li>Switch is "OFF".</li> <li>Bulb(s) or lamp(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ol>	<ol> <li>Turn switch "ON".</li> <li>Replace bulb(s) or lamp(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>
Battery will not charge	<ol> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ol>	<ol> <li>Replace battery.</li> <li>Check/clean all connections.</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ol>
Loss of drive	<ol> <li>Freewheel control in "disengaged" position.</li> <li>Motion drive belt worn, damaged, or broken.</li> <li>Air trapped in transmission during shipment or servicing.</li> </ol>	<ol> <li>Place freewheel control in "engaged" position.</li> <li>Replace motion drive belt.</li> <li>Purge transmission.</li> </ol>
Engine "backfires" when turning engine "OFF"	<ol> <li>Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol> <li>Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ol>

## **SERVICE NOTES**

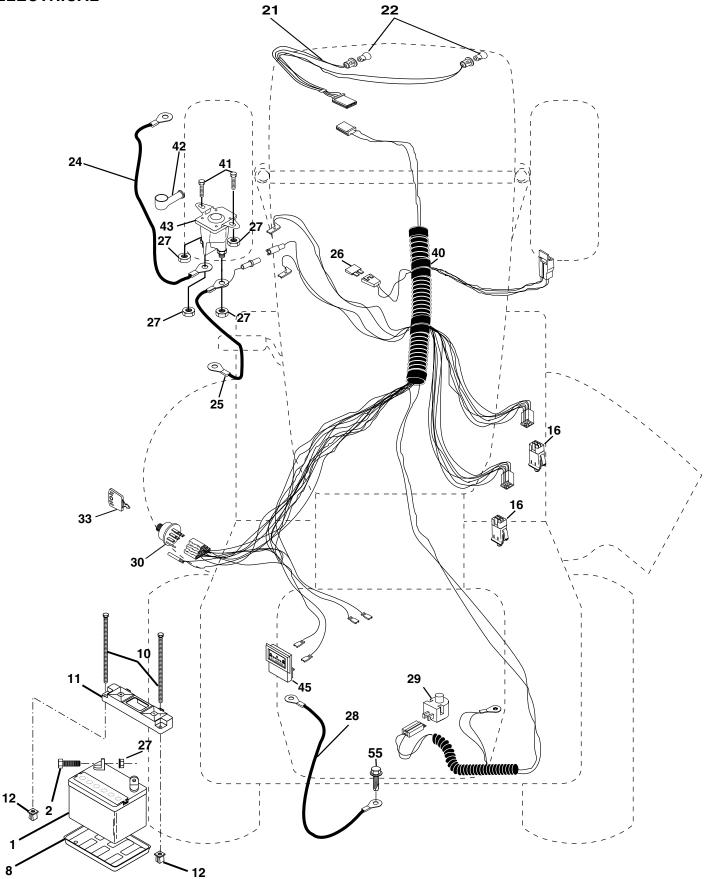
#### TRACTOR - - MODEL NUMBER SGT18H46C

#### SCHEMATIC



TRACTOR - - MODEL NUMBER SGT18H46C

#### ELECTRICAL



#### **TRACTOR - - MODEL NUMBER SGT18H46C**

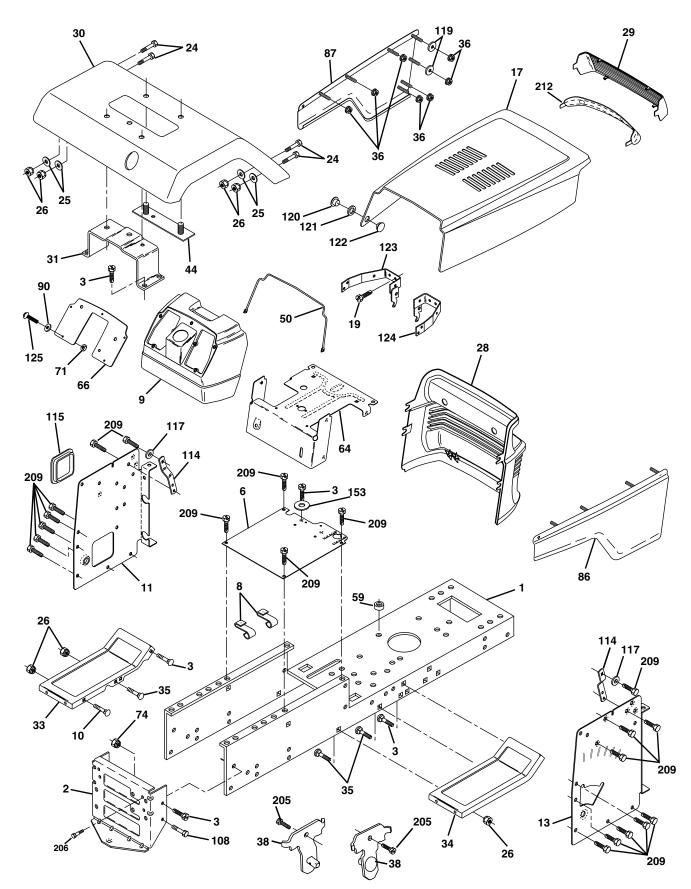
ELECTRICAL

KEY NO.	part No.	DESCRIPTION
1	163465	Battery, 12 Volt, 28 Amp
2	74760412	Bolt, Hex Head 1/4-20 UNC x 3/4
8	7603J	Tray, Battery
10	145211	Bolt, Battery Front 1/4-20 x 7.5 Zinc
11	150109	Holddown Battery Dash Mount
12	145769	Nut, Push Nylon 1/4" Battery Front
16	153664	Switch Interlock Push-In
21	166181	Harness, Light
22	4152J	Bulb, Light
24	108423X	Cable, Battery, 6 Gauge, 16", Red
25	146148	Cable, Battery
26	175158	Fuse, 20 Amp
27	73510400	Nut, Hex, Keps 1/4-20 UNC
28	145491	Cable, Ground, 6 Gauge, 12", Black
29	121305X	Switch, Plunger
30	175566	Switch, Ignition, Push-In
33	140401	Key, Ignition
40	178446	Harness, Ignition
41	71110408	Bolt, Hex, Fin. 1/4-20 x 1/2
42	131563	Cover, Terminal, Red
43	178861	Solenoid
-	121433X	Ammeter, Rectangular
55	17490508	Screw, Thdrol 5/16-18 x 1/2 TYT

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

**TRACTOR - - MODEL NUMBER SGT18H46C** 

**CHASSIS** 



#### **TRACTOR - - MODEL NUMBER SGT18H46C**

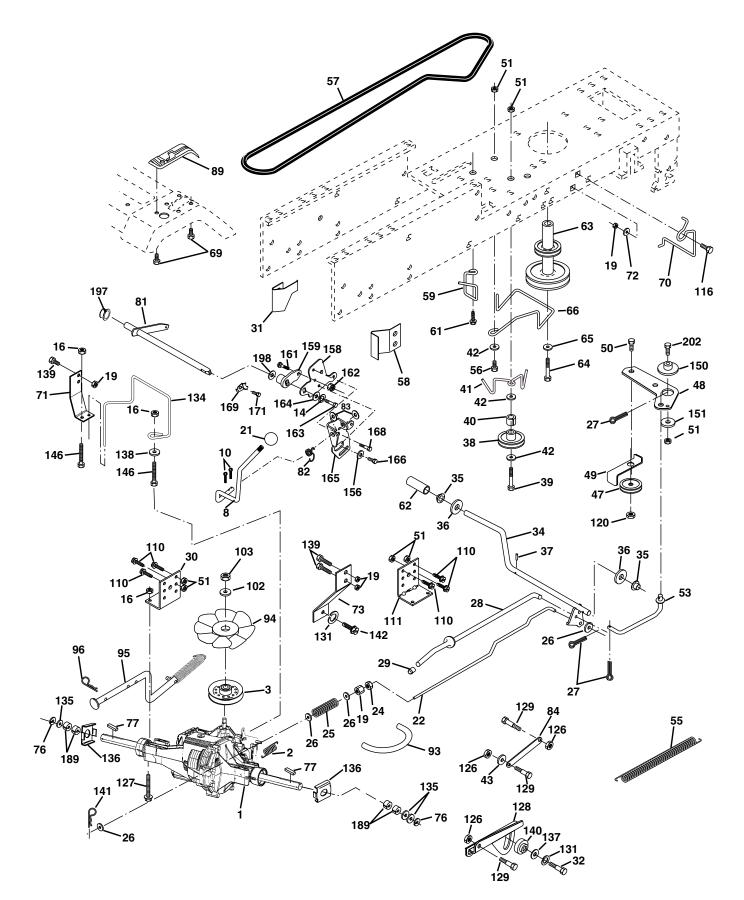
**CHASSIS** 

Key No.	PART NO.	DESCRIPTION
<b>NO.</b> 1 2 3 6 8 9 10 11 3 17 19 24 25 6 28 29 30 31 33 44 50 59 64 66 71 74 86 79 108 114 115 117 119 121 122 34 125 35 66 92 12 123 124 125 35 50 69 212 123 124 125 35 50 69 212 123 124 125 35 50 69 212 125 125 125 125 125 125 125 125 125	NO. 174620 176554 17060612 155923 126471X 170119 72140608 159954 159953 136673X550 164863 74780616 19131312 73800600 136375 136374X599 167270X550 175315 145244X550 145243X550 72110606 108067X 175710 140675 137304 110436X 170259 169261X010 73680600 136670X550 136671X550 136671X550 136671X550 136671X550 136671X550 13091216 74780612 145349 121794X 144283 19092016 137271 137269 137270 157105 157107 74180412 19132203 17490608 170165 17000612 156144	DESCRIPTION Chassis Drawbar Screw 3/8-16 x 3/4 Saddle Flat Lt Clip Insulator Dash Bolt RdHd Sqnk. 3/8-16 Unc x 1 Panel Dash Lh Panel Dash Rh Hood Screw Hwhd Hi-Lo #13-16 x 3/4 Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5 Washer 13/32 x 13/16 x 12 Ga. Nut Lock Hex w/Insert 3/8-16 UNC Grill / Lens Asm Lens Grille Fender Asm YTGT Bracket Fender Footrest Pnt. Lh Footrest Pnt. Rh Bolt RdHd Sht. Sqnk. 3/8-16 x 3/4 Nut Pal Bracket Asm Pivot Mower Rear Strap Asm Fender Rod Support Hood Bushing Snap Split Dash Lower Plate Dash Slkscr. Nut Keps Hex 1/4-20 Unc Nut Crownlock 3/8-16 Unc Panel Asm. Pnt. Side Rh Panel Asm. Pnt. Side Rh Panel Asm. Pnt. Side Lh Washer 9/32 x 3/4 x 16 Ga. Bolt Fin Hex 3/8-16 Unc x 3/4 Bracket Support Dash Cover Access Washer Serrated Disc 13/32 x 1 Washer 9/32 x 1-1/4 x 16 Ga. Rivet Ratchet Female Washer Nylon Rivet Ratchet Male Bracket Asm. Pivot Hood Lh Bracket Asm. Pivot Hood Rh Screw Mach Cr. 1/4-20 x 3/4 Washer 13/32 x 1-3/8 x 3 Ga. Screw Thdrol 3/8-16 x 1/2 Bolt Shoulder 5/16-18 Screw Hex wsh Thdrol 3/8-16 x 3/4 Insert Lens Reflector

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

**TRACTOR - - MODEL NUMBER SGT18H46C** 

DRIVE



#### **TRACTOR - - MODEL NUMBER SGT18H46C**

#### DRIVE

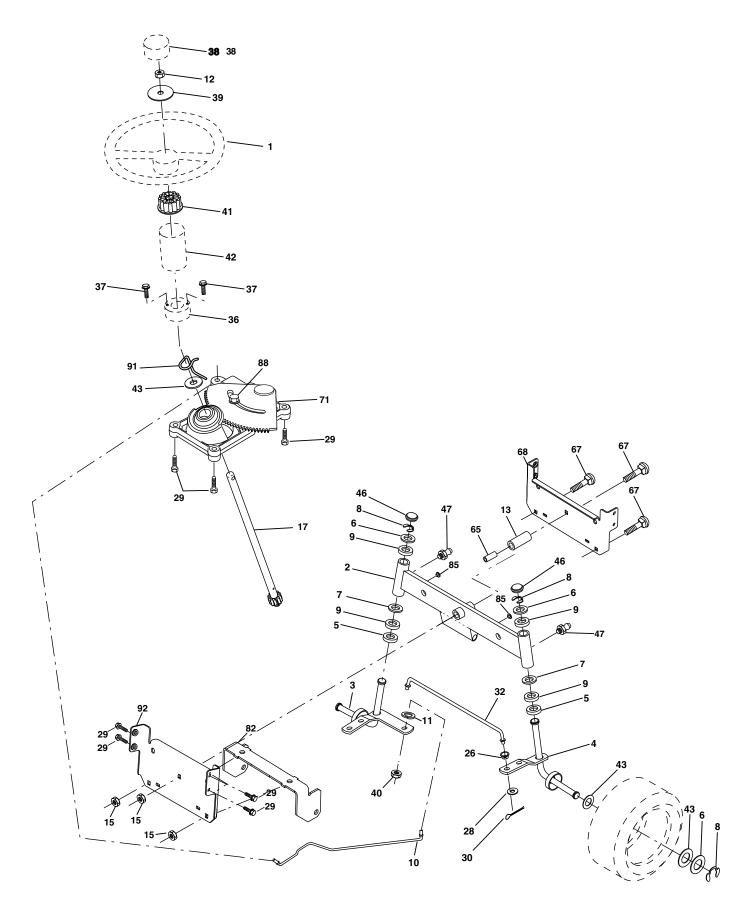
NO.         DESCRIPTION           1	KEY	PART	
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		NO.	
Manufacturer)2142431Spring, Brake Return3143995Pulley, Hydro8166020Rod Shift Fender Adjust Yt1076020416Pin, Cotter 1/8 x 11410040400Washer Lock Hvy Helical1673800500Nut Lock Hx w/Ins. 5/16-18 Unc1973800600Nut, Lock Hex w/Ins. 3/8-16 UNC21140845Knob22158274Rod, Brake2473350600Nut, Hex Jam 3/8-1625106888XSpring, Rod, Brake2619131316Washer 13/32 x 13/16 x 16 Ga.2776020412Pin, Cotter 1/8 x 3/428175765Rod, Brake, Park2971673Cap, Brake Parking Black30123780XBracket, Transaxle, L.H.31123791XKeeper, Belt, Transaxle, L.H.3274760512Bolt Hex Hd. 5/16-18 Unc x 3/434175578Shaft, Foot Pedal35120183XBearing Nylon3619211616Washer 21/32 x 1 x 16 Gauge371572HPin,Roll 3/16 x 138165936Idler, Flat3974760648Bolt Rdhd 3/8-16 Unc x 340175461Spacer41175556Keeper, Idler4219131312Washer 13/32 x 13/16 x 12 Gauge4319111012Bolt Shoulder 5/16-18 Unc47127783Pulley, Idler	1		
2       142431       Spring, Brake Return         3       143995       Pulley, Hydro         8       166020       Rod Shift Fender Adjust Yt         10       76020416       Pin, Cotter 1/8 x 1         14       10040400       Washer Lock Hvy Helical         16       73800500       Nut Lock Hx w/Ins. 5/16-18 Unc         19       73800600       Nut, Lock Hex w/Ins. 3/8-16 UNC         21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge			
3       143995       Pulley, Hydro         8       166020       Rod Shift Fender Adjust Yt         10       76020416       Pin, Cotter 1/8 x 1         14       10040400       Washer Lock Hvy Helical         16       73800500       Nut Lock Hx w/Ins. 5/16-18 Unc         19       73800600       Nut, Lock Hex w/Ins. 3/8-16 UNC         21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1 <td>2</td> <td>142431</td> <td></td>	2	142431	
8       166020       Rod Śhift Fender Adjust Yt         10       76020416       Pin, Cotter 1/8 x 1         14       10040400       Washer Lock Hvy Helical         16       73800500       Nut Lock Hx w/Ins. 5/16-18 Unc         19       73800600       Nut, Lock Hex w/Ins. 3/8-16 UNC         21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28       175765       Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34       175578       Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat	3		
10       76020416       Pin, Cotter 1/8 x 1         14       10040400       Washer Lock Hvy Helical         16       73800500       Nut Lock Hx w/Ins. 5/16-18 Unc         19       73800600       Nut, Lock Hex w/Ins. 3/8-16 UNC         21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3			
16       73800500       Nut Lock Hx w/Ins. 5/16-18 Unc         19       73800600       Nut, Lock Hex w/Ins. 3/8-16 UNC         21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         <	10		
19       73800600       Nut, Lock Hex w/Ins. 3/8-16 UNC         21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge			Washer Lock Hvy Helical
21       140845       Knob         22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47			
22       158274       Rod, Brake         24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler <td></td> <td></td> <td></td>			
24       73350600       Nut, Hex Jam 3/8-16         25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
25       106888X       Spring, Rod, Brake         26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
26       19131316       Washer 13/32 x 13/16 x 16 Ga.         27       76020412       Pin, Cotter 1/8 x 3/4         28 <b>175765</b> Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>17556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
28       175765       Rod, Brake, Park         29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34       175578       Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat         39       74760648       Bolt Rdhd 3/8-16 Unc x 3         40       17556       Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler	26		
29       71673       Cap, Brake Parking Black         30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
30       123780X       Bracket, Transaxle, L.H.         31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34       175578       Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat         39       74760648       Bolt Rdhd 3/8-16 Unc x 3         40       175461       Spacer         41       175556       Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
31       123791X       Keeper, Belt, Transaxle, L.H.         32       74760512       Bolt Hex Hd. 5/16-18 Unc x 3/4         34 <b>175578</b> Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38 <b>165936</b> Idler, Flat         39 <b>74760648</b> Bolt Rdhd 3/8-16 Unc x 3         40 <b>175461</b> Spacer         41 <b>175556</b> Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
34       175578       Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat         39       74760648       Bolt Rdhd 3/8-16 Unc x 3         40       175461       Spacer         41       175556       Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
34       175578       Shaft, Foot Pedal         35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat         39       74760648       Bolt Rdhd 3/8-16 Unc x 3         40       175461       Spacer         41       175556       Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			Bolt Hex Hd. 5/16-18 Unc x 3/4
35       120183X       Bearing Nylon         36       19211616       Washer 21/32 x 1 x 16 Gauge         37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat         39       74760648       Bolt Rdhd 3/8-16 Unc x 3         40       175461       Spacer         41       175556       Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler			
37       1572H       Pin,Roll 3/16 x 1         38       165936       Idler, Flat         39       74760648       Bolt Rdhd 3/8-16 Unc x 3         40       175461       Spacer         41       175556       Keeper, Idler         42       19131312       Washer 13/32 x 13/16 x 12 Gauge         43       19111012       Bolt Shoulder 5/16-18 Unc         47       127783       Pulley, Idler	35	120183X	Bearing Nylon
38         165936         Idler, Flat           39         74760648         Bolt Rdhd 3/8-16 Unc x 3           40         175461         Spacer           41         175556         Keeper, Idler           42         19131312         Washer 13/32 x 13/16 x 12 Gauge           43         19111012         Bolt Shoulder 5/16-18 Unc           47         127783         Pulley, Idler			
39         74760648         Bolt Rdhd 3/8-16 Unc x 3           40         175461         Spacer           41         175556         Keeper, Idler           42         19131312         Washer 13/32 x 13/16 x 12 Gauge           43         19111012         Bolt Shoulder 5/16-18 Unc           47         127783         Pulley, Idler			
40 <b>175461</b> Spacer           41 <b>175556</b> Keeper, Idler           42         19131312         Washer 13/32 x 13/16 x 12 Gauge           43         19111012         Bolt Shoulder 5/16-18 Unc           47         127783         Pulley, Idler			Idler, Flat Bolt Ddbd 2/8 16 Llbox 2
41 <b>175556</b> Keeper, Idler4219131312Washer 13/32 x 13/16 x 12 Gauge4319111012Bolt Shoulder 5/16-18 Unc47127783Pulley, Idler			
4219131312Washer13/32 x 13/16 x 12 Gauge4319111012Bolt Shoulder 5/16-18 Unc47127783Pulley, Idler			
43         19111012         Bolt Shoulder 5/16-18 Unc           47         127783         Pulley, Idler			
48 154407 Bellcrank Clutch Grnd Drv Stl			Pulley, Idler
49 123205X Retainer, Belt 50 74760624 Bolt, Hex 3/8-16 x 1-1/2			
50         74760624         Bolt, Hex         3/8-16 x 1-1/2           51         73680600         Nut, Crownlock 3/8-16			
53 105710X Link, Clutch			
55 105709X Spring, Return, Clutch			
56 74760620 Bolt, Hex 3/8-16 x 1-1/4			Bolt, Hex 3/8-16 x 1-1/4
57 161741 V-Belt, Drive			V-Belt, Drive
58 158278 Keeper, Belt, Transaxle, R.H.			
59         169691         Keeper Belt Centerspan           61         17060612         Screw 3/8-16 x 3/4			
62 8883R Cover, Foot Pedal			
63 <b>175412</b> Pulley, Engine			
64 71170764 Bolt, Hex 7/16-20 x 4-1/4	64		
65 10040700 Washer, Lock Hvy Hlcl Spr 7/16			
66 161488 Keeper Belt Engine F-proof			
69         142432         Screw Hex Wsh Hi-Lo 1/4-1/2 Unc           70         162848         Keeper Belt Engine			
70162848Keeper Belt Engine71158283Strap Torque Lh Hydro-3000			
72 19132012 Washer 13/32 x 1-1/4 x 12 Ga.			
73 158282 Strap Torque Rh Hydro-3000			
76 12000053 E-Ring	76		

KEY NO.	Part No.	DESCRIPTION
77	9396E	Key Square 1/4 x 2
81	165598	Shaft Asm Cross Tapered
82	123782X	Spring, Torsion
83	19171216	Washer 17/32 x 3/4 x 16 Gauge
84 89	165926 164892X428	Link Transaxle Console
93	142564	Line Fuel Hydro
94	140462	Fan Hydro
95	158508	Control Asm Bypass Hydro-3000
96	4497H	Retainer Spring 1" Zinc/cad.
102	141322	Washer Belliville 1/2 x 1-1/2
103	73940800	Nut Hex Jam Toplock 1/2-20 Unf
110 111	74760612 123776X	Bolt Hex 3/8-16 x 3/4 Bracket, Transaxle, R.H.
116	72110610	Bolt Rdhd Sq Neck 3/8-16 x 1/25
120	73900600	Nut Lock Flg. 3/8-16 Unc
126	1685H	Nut Lock 5/16-18 Nc Thd
127	74490548	Bolt Hex Flghd 5/16-18 x 3.0 Gr. 5
128	158284	Bracket Neutral Adjust HG-3000
129	105529X	Bolt Shoulder 5/16-18 Unc
131	10140500	Washer Lock 5/16
134 135	158272 123800X	Rod Actuator Bypass Hydro-3000 Washer 1-1/32 x 1-5/8 x 16 Gauge
136	163168X	Washer Axle Flange
137	19111212	Washer 11/32 x 3/4 x 12 Ga.
138	19112016	Washer 11/32 x 1.25 x 16 Ga.
139	74780612	Bolt Fin Hex 3/8-16 x 3/4
140	4475J	Bushing Pinion Sector
141	159197	Pin Hitch
142 146	74330516 74490536	Bolt 5/16 x 24 x 1 Bolt Hex Flghd 5/16-18 x 2-1/4
150	175456	Spacer
151	19133210	Washer 13/32 x 2 x 10 Ga.
156	166002	Washer Srrted 5/16ID x 1.125
158	165589	Bracket Shift Mount
159	165494	Hub Tapered Flange Shift Lt
161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr 5
162	73680400	Nut Crownlock 1/4-20 Unc
163 164	74780416 19091010	Bolt Hex Fin 1/4-20 Unc x 1 Gr 5 Washer 5/8 x .281 x 10 Ga
165	165623	Bracket Pivot Lever
166	166880	Screw 5/16-18 x 5/8
168	165492	Bolt Shoulder 5/16-18 x .561
169	165581	Plate Fastening Lt
171	17490608	Screw Thdrol 3/8-16 x 1/2 Ty-Tt
189	160849	Washer Spacer Axle
197	169613	Nyliner Snap-In 5/8" Id Washer Nyl 7/8 Id x, 105
198 202	169593 72110612	Washer Nyl 7/8 ld x .105 Bolt Carr Sh 3/8-16 x 1-1/2 Gr.5
202	12110012	

**NOTE:** All component dimensions given in U.S. inches\ 1 inch = 25.4 mm

**TRACTOR - - MODEL NUMBER SGT18H46C** 

#### STEERING ASSEMBLY



**TRACTOR - - MODEL NUMBER SGT18H46C** 

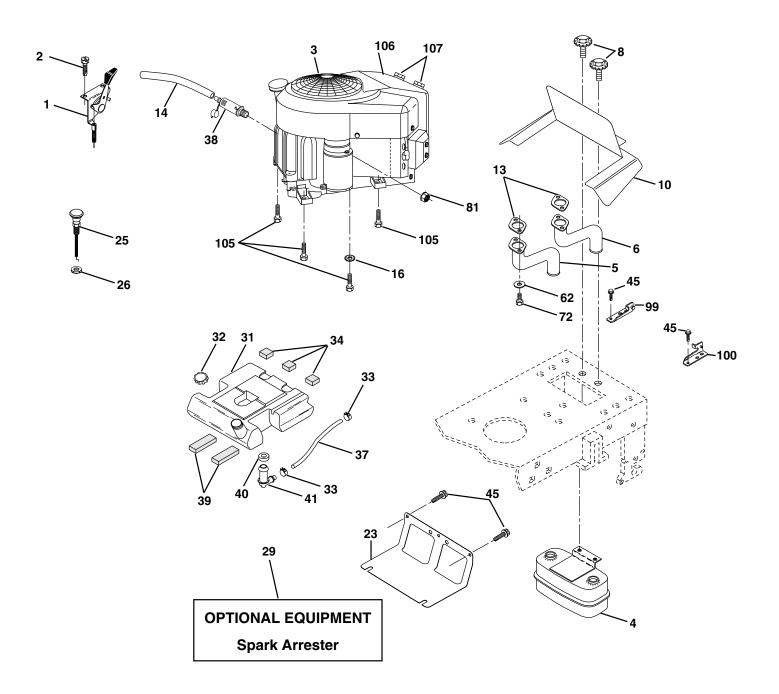
STEERING ASSEMBLY

KEY NO.	part No.	DESCRIPTION
1	140044X428	Wheel Steering Auto Black
2	154427	Axle Asm Front
3	156486	Spindle Asm Lh
4	157475	Spindle Asm Rh
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 X 1 5/8 X 16ga
7	19272016	Washer 27/32 X 1 1/4 X 16 Ga
8	12000029	Ring Klip #t5304-75
9 10	3366R <b>175122</b>	Bearing Col Strg Blk Link Drag
11	10040600	Lockwasher
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Spacer Bearing Axle Front
15	145212	Nut Hex Flange Lock
17	177883	Shaft Asm Strg
26	126847X	Bushing Rod Tie Blk Lt
28	19131416	Washer 13/32 X 7/8 X 16ga
29	17060612	Screw 3/8-16x3/4
30	76020412	Pin
32	130465	Rod Tie Wire Form 19 75 Mech
36	145207	Bushing Strg
37	152927	Screw TT #10-32 x 5 x 3/8 Flange
38	140045X428	Insert Cap Strg Washer .53 x 2.25 x .160 Zinc
39	100712K	
40	7810H	Locknut Center
41 42	100711L 177776X428	Adaptor Wheel Strg 640/ 635id Boot Dash Steering
42 43	121749X	Washer 25/32 X 1 1/4 X 16 Ga
46	121232X	Cap Spindle Fr Top Blk
47	6855M	Fitting Grease
65	160367	Spacer Axle
67	72140618	Bolt Rdhd Sq 3/8-16 Unc x 2-1/4
68	169828	Brace Axle Front
71	175146	Steering Asm
82	169835	Bracket Susp Chassis Front
85	133835	Fastner Christmas Tree
88	175118	Bolt Shoulder 7/16-20
91	175553	Clip Steering
92	169829	Axle Rear 16" Tires GTV

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

**TRACTOR - - MODEL NUMBER SGT18H46C** 

ENGINE



### **TRACTOR - - MODEL NUMBER SGT18H46C**

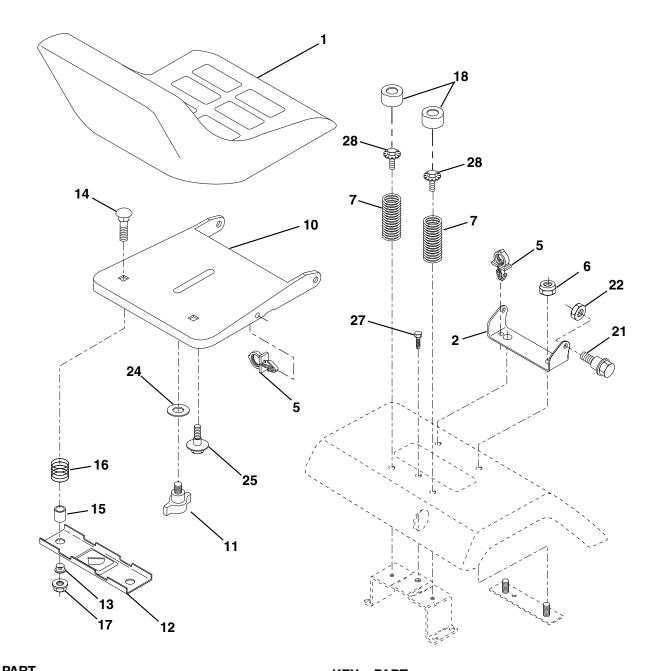
ENGINE

Key No.	part No.	DESCRIPTION
1	176174	Control, Throttle
2 3	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8 Engine, Tec Model Number TVT691
4	149723	(Order Parts From Engine Manufacturer) Muffler
5	174703	Tube, Exhaust, LH
6	174704	Tube, Exhaust, RH
8	171877	Bolt 5/16-18 UNC x 3/4 w/Sems
10	176252	Shield, Heat
13 14	35-414 148456	Muffler Gasket
14	146456	Tube Drain Oil Easy Washer, Lock, External Tooth 3/8
23	169837	Shield, Browning / Debris Guard
25	132778	Choke Control
26	73920600	Nut, Keps 3/8-24 UNF
29	137180	Kit, Spark Arrestor
31	151346	Tank Fuel 3 50 Rear
32	161493	Cap Fuel Gauge
33	123487X	Clamp, Hose
34	106082X	Pad, Spacer
37 38	8543R	Line, Fuel
38 39	148315 109227X	Plug Drain Oil Easy Pad. Idler
40	3645J	Bushing
41	139277	Stem, Fuel Tank
45	17000612	Screw Hex wsh Thdrol 3/8-16 x 3/4
62	10040500	Washer Lock 5/16
72	71070512	Screw Hex Hd Cap 5/16-18 x 3/4
81	73510400	Nut Keps Hex 1/4-20 Unc
99	160771	Bracket Asm Pivot Lh Raised
100	160772	Bracket Asm Pivot Rh Raised
105	17120616	Screw 3/8-16 x 1
106 107	160-82 42-823	Control Cover Screw
107		

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER SGT18H46C

#### SEAT ASSEMBLY



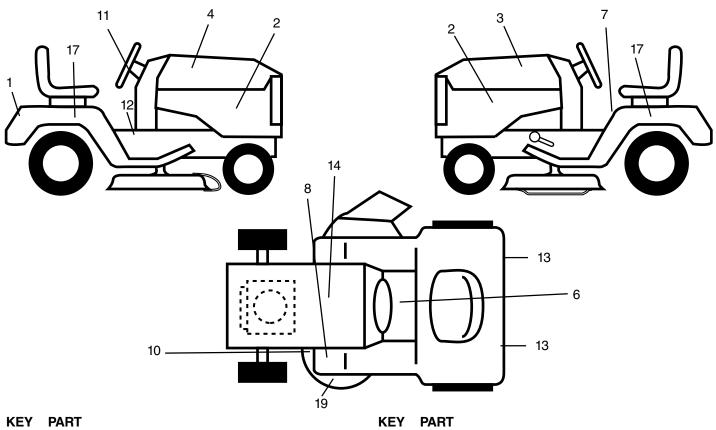
Key No.	part No.	DESCRIPTION
1	140118	Seat
2	140551	Pivot Bracket, Seat
5	145006	Clip, Push-in Hinged
6	73800600	Nut, Lock Hex w/Ins 3/8-16 UNC
7	124181X	Spring, Seat
10	174894	Pan, Seat
11	166369	Knob, Seat, Black
12	121246X	Bracket, Switch Mounting
13	121248X	Bushing, Snap, Black, Nylon
14	72050412	Bolt, Carriage 1/4-20 x 1-1/2
15	121249X	Spacer, Split

KEY NO.	Part No.	DESCRIPTION
16	123740X	Spring
17	123976X	Locknut, Flange 1/4 Grade 5
18	124238X	Cap Spring Seat Blk 1.75 x 1.0
21	171852	Bolt, Shoulder 5/16-18 Unc -2A
22	73800500	Nut Lock Hex W/Ins 5/16-18 Unc
24	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
25	127018X	Bolt, Shoulder 5/16-18 x .62
27	17490608	Screw Thdrol 3/8-16 x 3/4
28	171877	Bolt 5/16-18 UNC x 3/4 w/Sems

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

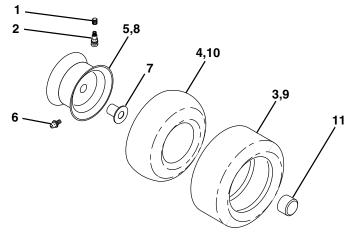
### **TRACTOR - - MODEL NUMBER SGT18H46C**

#### DECALS



NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	171448	DecalFender	12	156835	Decal Oper sDL Eng
2	164022	Decal Side Panel	13	106202X	Reflector Taillight
3	177174	Decal Hood LH	14	145005	Decal, Btry Dngr/Psn
4	177173	Decal Hood RH	17	177512	Decal Fender Side
6	140837	Decal Parking Brake	19	162391	Decal Deck
7	157002	Decal Danger Fender English		142341	Decal Cntrl Movement
8	4900J	Decal Clutch/brake English		157199X428	Pad, Footrest
10	139346	Decal V-Belt Sch		138311	Decal Handle Lft Height Adjust
11	162398	Decal Steering		178387	Manual, Owner's (English)

WHEELS & TIRES

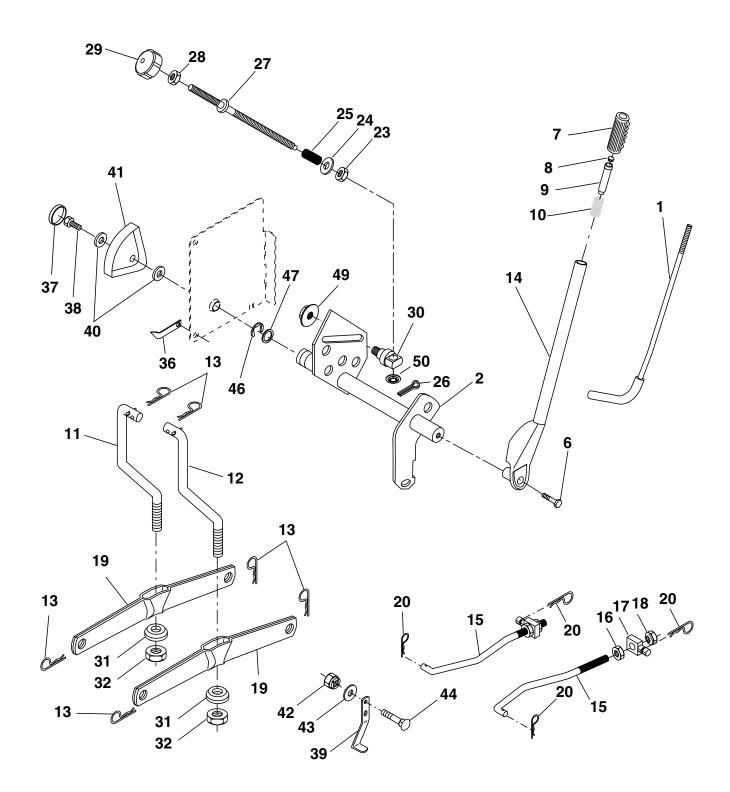


KEY NO.	PART NO.	DESCRIPTION		
1	59192	Cap Valve Tire		
2	65139	Stem Valve		
3	106230X	Tire Front		
4	59904	Tube Front (Service Item Only)		
5	106228X427	Rim Asm 8" front		
6	278H	Fitting Grease (Front Wheel Only)		
7	9040H	Bearing Flange (Front Wheel nly)		
8	124074X427	Rim Asm 12" rear		
9	124106X	Tire R 23 x 8.5-12 C Service		
10	7154J	Tube Rear (Service Item Only)		
11	104757X428	Cap Axle Blk 1 50 X 1 00		
	144334	Sealant, Tire (1 Doz. Tube)		
<b>NOTE:</b> All component dimensions given in U.S. inches				

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

**TRACTOR - - MODEL NUMBER SGT18H46C** 

#### MOWER LIFT



#### **TRACTOR - - MODEL NUMBER SGT18H46C**

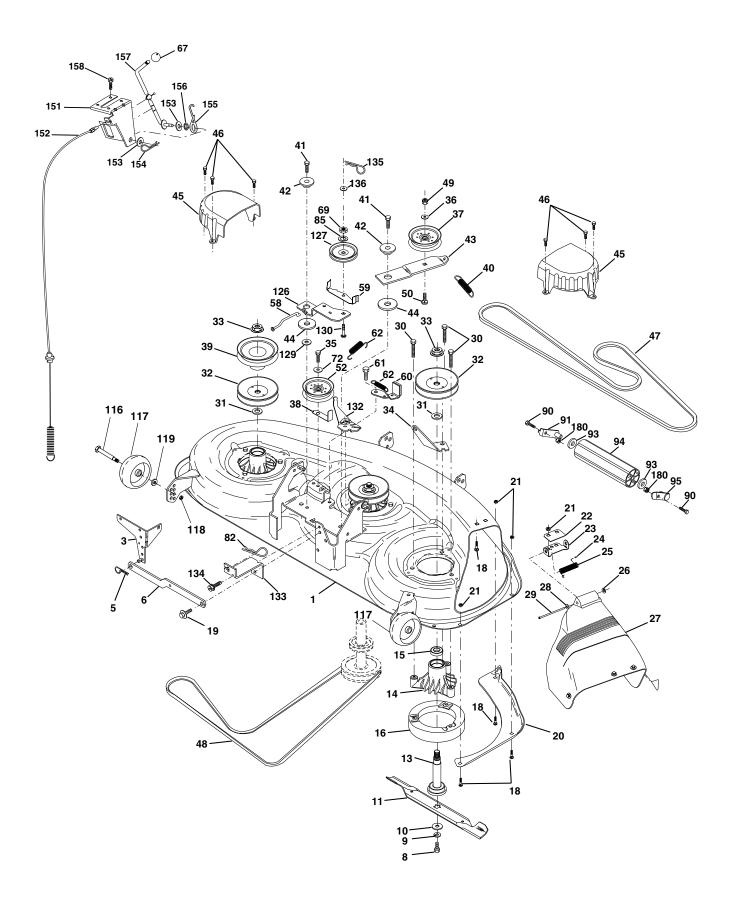
**MOWER LIFT** 

KEY NO.	part No.	DESCRIPTION
$\begin{array}{c}1\\2\\6\\7\\8\\9\\10\\11\\23\\4\\56\\7\\8\\9\\01\\12\\34\\56\\7\\8\\9\\01\\32\\6\\7\\8\\9\\04\\1\\42\\34\\46\\7\\9\\5\end{array}$	121006X 159188 74780624 109413X 124526X 122364X 2876H 145537 145536 4939M 159189 173288 73350800 <b>175689</b> 73800800 139868 163552 110807X 19131016 137150 76020308 160985 73350600 138057 150233 169865 73540600 155097 123935X 17060516 142992 19112410 123934X 73680600 19131612 72240608 12000022 19292016 145212 110452X	Rod Assembly, Lever Shaft Assembly, Lift Bolt, Hex Head, Fin. $3/8-16 \ge 1-1/2$ Grip Handle Button Plunger Black Plunger Lever Lift Spring Link, Lift, LH Link, Lift, RH Retainer Spring Lever Assembly, Lift, RH Link, Front Nut, Hex, Jam 1/2-13 UNC Trunnion Nut Lock W/Wsh 1/2-13 Unc Arm, Suspension, Rear Retainer Spring Nut Special Washer 13/32 x 5/8 x 16 Ga. Spring Compression Pin Cotter Rod Adj. Lift Nut Hex Jam 3/8-16 Unc Knob Inf. 3/8-16 Unc Knob Inf. 3/8-16 Unc Trunnion Infin Height Bearing Nut, Crownlock 3/8-24 Pointer Height Indicator Plug Hole Screw 5/16-18 $\ge 1$ Stop Over Center Washer 11/32 $\ge 1-1/2$ 10 Ga. Scale Ind. Height Nut, Crownlock 3/8-16 UNC Washer 13/32 $\ge 1 \ge 2$ Washer 13/32 $\ge 1 \ge 2$ Washer Nut, Carriage 3/8-16 $\le 1.00$ E-Ring Washer Nut Hex Flange Lock Nut Push

**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER SGT18H46C

#### **MOWER DECK**



#### **TRACTOR - - MODEL NUMBER SGT18H46C**

**MOWER DECK** 

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156948	Deck Asm., Mower 46"	49	73680600	Nut, Crownlock 3/8-16 UNC
3	138457	Bracket Asm., Sway Bar	50	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5
5	4939M	RetainerSpring	52	156493	Pulley Idler
6	130832	Arm, Suspension, Rear (Sway Bar)	58	165906	Rod Brake 46"
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8	59	157034	Guide Bolt 46" Mower Dr
9	10030600	Washer, Lock Hvy., Unplated 3/8	60	156722	Arm Asm Brake 46"
10	140296	Washer, Hard Blade, Mower Vented	61	161315	Bolt Shld 5/16-18
11	176084	Blade Hi-Perf 46"	62	131870	Spring Return
13	137553	Shaft Asm. w/Lower Bearing	67	106932X	Knob Rd 3/8-16 Plstc Thds Blk
14	137152	Housing, Mandrel	69	73350600	Nut Hex Jam 3/8-16 Unc
15 16	110485X 174493	Bearing, Ball, Mandrel	72 82	19131316 4497H	Washer 13/32 x 1 x 16 Ga.
18	72140505	Stripper, Mower Round Bolt, Carriage 5/16-18 x 5/8	o∠ 85	10040600	Retainer Spring Washer Lock 3/8
10	132827	Bolt, Hex Head, Shoulder 5/16-18	80 90	17060612	Screw 3/8-16 x 3/4
20	145055	Baffle, Vortex Mower 46"	90 91	175746	Bracket Asm. Noseroller Lh
20	73680500	Nut, Crownlock 5/16-18 UNC	93	19171416	Washer $17/32 \times 7/8 \times 16$ Ga.
22	134753	Stiffiner, Bracket	94	132264	Roller Nose
23	131267	Bracket, Deflector	95	175747	Bracket Asm. Noseroller Rh
24	105304X	Cap, Sleeve	116	4898H	Bolt, Shoulder
25	149287	Spring, Torsion, Deflector	117	165746	Gauge Wheel
26	110452X	Nut, Push	118	73930600	Nut, Centerlock 3/8-16 UNC
27	166883X428	Shield, Deflector Mower	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	126	156472	Arm, Idler, Primary Deck 46"
29	131491	Rod, Hinge	127	146763	Pulley, Idler, V-Groove Dim. 4.25
30	157722	Screw, Thdroll Washer Head	129	19133808	Washer 13/32 x 2-3/8 x 8 Ga
31	129963	Washer, Spacer Mower Vented	130	165891	Bolt Carriage Idler
32	153531	Pulley, Mandrel	132	165890	Arm Spring Brake Mower
33	178342	Nut, Flg. Top Lock	133	165904	Bracket Anchor Cable 46"
34	144945	Anchor, Spring Deck 46"	134	17490512	Screw Thdrol5/16-18 x 3/4
35	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt	135	165898	Retainer Spring Yellow
36 37	19131316	Washer 13/32 x 1 x 16 Ga.	136 151	19091216 169670	Washer 9/32 x 3/4 x 16 Ga
	131494	Pulley, Idler, Flat	151	170328	Bracket Clutch Cable
38 39	156085 144917	Keeper, Belt, Idler Pulley, Idler, Driven	152	169674	Clutch Cable 38"/46" Washer Flat 3/8" Type B
39 40	137273	Spring, Secondary 44/46/50 Vent	153	169675	Spring Retainer
40	17060620	Screw 3/8-16 x 1-1/4	155	169671	Spring Retension Q
42	165723	Spacer, Retainer	156	169672	SPacer Clutch Cable
43	144949	Arm, Idler Secondary	157	169669	Rod Clutch Cable 3/8"
44	133943	Washer, Hardened	158	17720410	Screw Hex Thd Cut 1/4-20 x 5/8
45	145059	Cover, Mandrel Deck		143651	Mandrel Asm 44"/46"/50" Service
46	137729	Screw, Thdroll. 1/4-20 x 5/8		172497	Replacement Mower, Complete
47	144959	V-Belt, Mower, Secondary	NOT		1 , 1
48	139573	V-Belt, Mower, Primary	IUNI	1 inch = 25	nent dimensions given in U.S. inches
		-		7 111011 - 20	

# LIMITED WARRANTY

The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the following limitations and exclusions.

- 1. This warranty does not apply to the engine, other than EHP manufactured transaxle/transmission components, battery (except as noted below) or components parts thereof. Please refer to the applicable manufacturer's warranty on these items.
- Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by Electrolux Home Products.
- 3. Battery Warranty: On products equipped with a Battery, we will replace, without charge to you, any battery which we find to be defective in manufacture, during the first ninety (90) days of ownership. After ninety (90) days, we will exchange the Battery, charging you 1/12 of the price of a new Battery for each full month from the date of the original sale. Battery must be maintained in accordance with the instructions furnished.
- 4. The Warranty period for any products used for rental or commercial purposes is limited to 90 days from the date of original purchase.
- 5. This Warranty applies only to products which have been properly assembled, adjusted, operated, and maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.
- 6. Exclusions: Excluded from this Warranty are belts, blades, blade adapters, normal wear, normal adjustments, standard hardware and normal maintenance.
- 7. In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

Should you have any unanswered questions concerning this Warranty, please contact:

Electrolux Home ProductsIn Canada contact:a division of WCI Outdoor Products, Inc.Electrolux Home ProductsOutdoor Products Customer Service Dept.a division of WCI Outdoor Products, Inc.250 Bobby Jones Expressway7075 Ordan DriveAugusta, GA 30909 USAMississauga, OntarioL5T 1K6

giving the model number, serial number and date of purchase of your product and the name and address of the authorized dealer from whom it was purchased.

THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRAN-TIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR EXPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale.

This is a limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

